

CLAIMS

1. (PREVIOUSLY AMENDED) A method for specifying a location for an object in a drawing program comprising:

- (a) obtaining a drawing having two or more existing objects in a drawing program;
- (b) identifying one of the objects in the drawing program, wherein the identified object comprises a collection of one or more graphical elements;
- (c) defining, without moving the identified object in the drawing, an automatic location property for the identified object, wherein:
  - (i) the automatic location property provides a location, within the drawing, for the identified object with respect to another object, area, or space; and
  - (ii) a value of a property of the identified object is obtained from property data of the other object, area, or space based on the location of the identified object.

2. (PREVIOUSLY AMENDED) The method of claim 1, wherein the automatic location property is part of a property set definition attached to the identified object.

3. (ORIGINAL) The method of claim 1, further comprising retrieving schedule data from the automatic location property.

4. (PREVIOUSLY AMENDED) The method of claim 1, wherein:  
the identified object comprises a door;  
the automatic location property is used to create an automatic door number for the door based on a space the door is located in or near.

5. (PREVIOUSLY AMENDED) The method of claim 1, further comprising displaying a location grip wherein a position of the location grip in the drawing determines the object, area, or space where the identified object is located and where property data for the identified object is obtained from.

6. (PREVIOUSLY AMENDED) The method of claim 5, further comprising modifying the object, area, or space where property data is obtained from by moving the location grip without moving the identified object.

7. (PREVIOUSLY AMENDED) An apparatus for specifying a location for an object in a computer drawing program comprising:

(a) a computer having a memory;

(b) an application executing on the computer, wherein the application is configured to:

(i) obtain a drawing having two or more existing objects;

(ii) identifying one of the objects, wherein the identified object comprises a collection of one or more graphical elements; and

(iii) define, without moving the identified object in the drawing, an automatic location property for the identified object, wherein:

(1) the automatic location property provides a location, within the drawing, for the identified object with respect to another object, area, or space; and

(2) a value of a property of the identified object is obtained from property data of the other object, area, or space based on the location of the identified object.

8. (PREVIOUSLY AMENDED) The apparatus of claim 7, wherein the automatic location property is part of a property set definition attached to the identified object.

9. (ORIGINAL) The apparatus of claim 7, wherein the application is further configured to retrieve schedule data from the automatic location property.

10. (PREVIOUSLY AMENDED) The apparatus of claim 7, wherein:  
the identified object comprises a door;  
the automatic location property is used to create an automatic door number for the door based on a space the door is located in or near.

11. (PREVIOUSLY AMENDED) The apparatus of claim 7, wherein the application is further configured to display a location grip wherein a position of the location grip in the drawing determines the object, area, or space where the identified object is located and where property data for the identified object is obtained from.

12. (PREVIOUSLY AMENDED) The apparatus of claim 11, wherein the application is further configured to modify the object, area, or space where property data is obtained from by moving the location grip without moving the identified object.

13. (PREVIOUSLY AMENDED) An article of manufacture comprising a program storage medium readable by a computer and embodying one or more instructions executable by the computer to perform a method for specifying a location for an object in an object-oriented computer drawing program, the method comprising:

- (a) obtaining a drawing having two or more existing objects in a drawing program;
- (b) identifying one of the objects in the drawing program, wherein the identified object comprises a collection of one or more graphical elements; and
- (c) defining, without moving the identified object in the drawing, an automatic location property for the identified object, wherein:
  - (i) the automatic location property provides a location, within the drawing, for the identified object with respect to another object, area, or space; and
  - (ii) a value of a property of the identified object is obtained from property data of the other object, area, or space based on the location of the identified object.

14. (PREVIOUSLY AMENDED) The article of manufacture of claim 13, wherein the automatic location property is part of a property set definition attached to identified object.

15. (ORIGINAL) The article of manufacture of claim 13, further comprising retrieving schedule data from the automatic location property.

16. (PREVIOUSLY AMENDED) The article of manufacture of claim 13, wherein:  
the identified object comprises a door;  
the automatic location property is used to create an automatic door number for the door  
based on a space the door is located in or near.

17. (PREVIOUSLY AMENDED) The article of manufacture of claim 13, further  
comprising displaying a location grip wherein a position of the grip in the drawing determines the  
object, area, or space where the identified object is located and where property data for the identified  
object is obtained from.

18. (PREVIOUSLY AMENDED) The article of manufacture of claim 17, further  
comprising modifying the object, area, or space where property data is obtained from by moving the  
location grip without moving the identified object.

19. (PREVIOUSLY AMENDED) The method of claim 1 further comprising  
automatically retrieving data for the identified object from the other object, area, or space where the  
identified object is located.

20. (PREVIOUSLY AMENDED) The apparatus of claim 7 wherein the application is  
further configured to automatically retrieve data for the identified object from the other object, area,  
or space where the identified object is located.

21. (PREVIOUSLY AMENDED) The article of manufacture of claim 13 wherein the  
method further comprises automatically retrieving data for the identified object from the other  
object, area, or space where the identified object is located.